

20060825.ba v03\_n949.bam.20060825

>From ???@??? Fri Aug 25 00:28:41 2006 -0500  
Date: Fri, 25 Aug 2006 05:27:48 GMT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 3949  
Message-Id: <20060825052749.59F0F1B7FC5@srvr1.theporch.com>

BOATANCHORS Digest 3949

Topics covered in this issue include:

- 1) Grid Caps Found  
by "B. Smith" <smithab11@comcast.net>
- 2) The word, Sir, is "Dempsey"  
by WA5CAB@cs.com
- 3) Re: The word, Sir, is "Dempsey"  
by w8au@sssnet.com
- 4) Re: The word, Sir, is "Dempsey"  
by "Arden Allen" <gumbear@pacbell.net>
- 5) Re: The word, Sir, is NOT "Dempsey"  
by Stuw7fe@aol.com
- 6) Shack cleaning time at N40ZI  
by Allen Cutts <cacutts@mindspring.com>
- 7) Dempster aka. boatanchor repository  
by wb3fau@att.net
- 8) Small Connecting rod  
by Robert Kemp <bkemp@bobkemp.com>
- 9) connecting rod  
by Robert Kemp <bkemp@bobkemp.com>
- 10) Re: Small Connecting rod  
by W7QH0@aol.com
- 11) Re: Small Connecting rod  
by WA5CAB@cs.com
- 12) Re: Small Connecting rod  
by "Tom Rauch" <w8ji@contesting.com>
- 13) Re: Small Connecting rod  
by john <johnmb@nc.rr.com>
- 14) Heathkit VHF Dual Wattmeter - Parts  
by W4UOC@aol.com
- 15) Gonset Commander II coil dimensions?  
by Richard Post <postr@ohiou.edu>
- 16) RE: The word, Sir, is "Dempsey"  
by "Ed Zeranski" <ezeran@ezeran.cnc.net>
- 17) FS: SX-16 and stuff  
by "Tom Smith" <tsmith@hal-pc.org>
- 18) swan 160 f/s

by Robert Kemp <bkemp@bobkemp.com>  
19) impedance mismatch  
by "John Gillespie" <jgillespie@porchlight.ca>  
20) Re: impedance mismatch  
by Edward Knobloch <k4pf@juno.com>  
21) Re: impedance mismatch  
by "John Gillespie" <jgillespie@porchlight.ca>  
22) Re: impedance mismatch  
by "John Gillespie" <jgillespie@porchlight.ca>  
23) RE: impedance mismatch  
by "Ed Sieb" <esieb@sympatico.ca>  
24) Re: impedance mismatch  
by Richard Post <postr@ohiou.edu>  
25) Re: impedance mismatch  
by "Arden Allen" <gumbear@pacbell.net>

-----  
Message-ID: <006601c6c4ca\$405814b0\$3b19c847@HAL1000>  
From: "B. Smith" <smithab11@comcast.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Grid Caps Found  
Date: Sun, 20 Aug 2006 22:33:54 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
format=flowed;  
charset="Windows-1252";  
reply-type=original  
Content-Transfer-Encoding: 7bit

Thanks to all that offered assistance in located the grid caps. I have  
obtained them from Lloyd KK7IZ.  
His web site is  
[www.lloydsdipsydumster.com](http://www.lloydsdipsydumster.com)

73 breck k4che

-----  
From: WA5CAB@cs.com  
Message-ID: <c4c.3f3738.321a7bb0@cs.com>  
Date: Sun, 20 Aug 2006 23:00:00 EDT  
Subject: The word, Sir, is "Dempsey"  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative; boundary="part1\_c4c.3f3738.321a7bb0\_boundary"

--part1\_c4c.3f3738.321a7bb0\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

US Military Trivia 101.

"Dipsy" is what you are when you run into the Guard Shack coming back aboard the Base and get confined to Base for 90 days. The large steel dry trash containers used on US military bases throughout the last two-thirds of the last century were "Dempsey Dumpsters".

Robert Downs - Houston  
<<http://www.wa5cab.com>> (Web Store)  
MVPA 9480  
<[wa5cab@cs.com](mailto:wa5cab@cs.com)> (Primary email)  
<[wa5cab@houston.rr.com](mailto:wa5cab@houston.rr.com)> (Backup email)

--part1\_c4c.3f3738.321a7bb0\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--part1\_c4c.3f3738.321a7bb0\_boundary--

-----  
Message-Id: <7.0.1.0.0.20060821012100.027e2c10@sssnet.com>  
Date: Mon, 21 Aug 2006 01:29:38 -0400  
To: Old Tube Radios <[boatanchors@theporch.com](mailto:boatanchors@theporch.com)>  
From: w8au@sssnet.com  
Subject: Re: The word, Sir, is "Dempsey"  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:00 PM 8/20/06, WA5CAB@cs.com wrote:  
>US Military Trivia 101.  
>  
>"Dipsy" is what you are when you run into the Guard Shack coming  
>back aboard the Base and get confined to Base for 90 days. The  
>large steel dry trash containers used on US military bases

>throughout the last two-thirds of the last century were "Dempsey Dumpsters".

Now Robert... this may not be in the "Blue Jackets Manual" but the first thing I learned at boot camp was that they were "Dempster Dumpsters." (Dempster Company) First joke I heard at boot was about the WAVE and (the Jarhead?) in the Dempster Dumpster... :-)

Perry w8au

-----  
Message-ID: <001b01c6c4f3\$389abd80\$fce47443@KB6NAX>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: The word, Sir, is "Dempsey"  
Date: Mon, 21 Aug 2006 00:26:37 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Whatever we called them it brings to memory those endearing moments in San Diego boot camp. We had a bonehead topbacco fiend in our company that just couldn't reckon what the smoking lamp was about. The company commander finally caught him and sentenced him to sit in the Dumps....whatever dumpster during smoke break (lamp lit) where he could watch the smokers nearby sans tobacco because of the risk of setting himself on fire. It wasn't long before someone tossed a but into the dumpster with our unlucky friend and set the trash afire. The company commander, a salty cheif who had been busted three times on the way to his rating, smelling a visit with the division commanding officer coming his way, decided it wasn't in the best interests of the Navy to immolate recruits. So the next time "Smokey" had an unfortunate urge and got caught again he was sentenced to standing on a laundry table and with a bucket on his head he could smoke all he wanted to. We waited, and waited, .....and waited, but were never rewarded with his passing out so we would have to catch him before he collided with concrete. The Marlborro Man would have been proud!

Arden Allen  
KB6NAX

-----  
From: Stuw7fe@aol.com  
Message-ID: <573.4985241.321b34c4@aol.com>  
Date: Mon, 21 Aug 2006 12:09:40 EDT  
Subject: Re: The word, Sir, is NOT "Dempsey"  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

In a message dated 8/20/2006 10:30:07 PM US Mountain Standard Time, w8au@sssnet.com writes:

At 11:00 PM 8/20/06, WA5CAB@cs.com wrote:

>US Military Trivia 101.

>

>"Dipsy" is what you are when you run into the Guard Shack coming  
>back aboard the Base and get confined to Base for 90 days. The  
>large steel dry trash containers used on US military bases  
>throughout the last two-thirds of the last century were "Dempsey Dumpsters".

Now Robert... this may not be in the "Blue Jackets Manual" but the first thing I learned at boot camp was that they were "Dempster Dumpsters." (Dempster Company) First joke I heard at boot was about the WAVE and (the Jarhead?) in the Dempster Dumpster... :-)

Perry w8au

Perry is, of course, correct. See the biography of George R. Dempster and its included history of Dempster Brothers, Inc. at

<http://www.fountaincitytnhistory.info/People7-Dempster.htm>

Boatanchor content: Sadly, Dempster Dumpsters have been the repository for more fine boatanchors and useful BA parts than one can even imagine.

Stu W7FE

-----  
Message-ID: <23003139.1156176676065.JavaMail.root@mswamui-andean.atl.sa.earthlink.net>

Date: Mon, 21 Aug 2006 12:11:15 -0400 (GMT-04:00)

From: Allen Cutts <cacutts@mindspring.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Shack cleaning time at N40ZI

Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Guys,

The time has come to clean out some radios from the shack in order to make = some room around here. Below I=E2=80=99ve listed a few radios I=E2=80=99ve = got for sale along with a photo. I don=E2=80=99t want to ship these heavy b= easts and would prefer these to be a pick up only here in the Atlanta area =

or I can deliver to the Shelby Hamfest.

Central Electronics 200V =E2=80=93 Asking \$1600 This transmitter has been completely restored by Nick Tusa and even includes 160-meter conversion kit = installed and tested.

<http://n4ozi.dezines.com/radio/ba/ce200v.jpg>

R390 (Motorola) =E2=80=93 Asking \$1200 This receiver has also been completely restored and include an excellent product detector for SSB.

<http://n4ozi.dezines.com/radio/ba/r390.jpg>

Hallicrafters HT-20 =E2=80=93 Asking \$600 An excellent plate modulated transmitter.

<http://n4ozi.dezines.com/radio/ba/ht20.jpg>

Allen Cutts, N4OZI  
Decatur, GA  
404-284-2710

-----  
From: wb3fau@att.net  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Dempster aka. boatanchor repository  
Date: Mon, 21 Aug 2006 17:17:16 +0000  
Message-Id:  
<082120061717.12315.44E9EA9B0009DA3A0000301B21603831169A0E00CC0D99@att.net>

Large dumpsters at Hamfests are a wonderful thing! Plenty of room to get in and out of- and not getting smelly in the process!

-----  
Message-ID: <44EA0CFD.1050108@bobkemp.com>  
Date: Mon, 21 Aug 2006 14:43:57 -0500  
From: Robert Kemp <bkemp@bobkemp.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Small Connecting rod  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

I need to make a small connecting rod between two points.  
I know I've seen this style of thing...just don't know where to get the

pieces.

The rod is maybe 3/16" or 1/8" in diameter.

On each end is a spring loaded or snap on deal that fits over a small - for lack of a better term - ball hitch like on a trailer hitch, but of course this "ball" is maybe at most 1/4" in diameter and probabably more like 3/16" or 1/8". The end pieces that go on the connecting rod are usually adjustable.

Bob  
wa0vrc

-----  
Message-ID: <44EA172B.2040702@bobkemp.com>  
Date: Mon, 21 Aug 2006 15:27:23 -0500  
From: Robert Kemp <bkemp@bobkemp.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: connecting rod  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Got two quick replys.....connecting linkage on a carbureator is where I've seen them and that'll do the trick.

Thanks guys

Bob

-----  
From: W7QH0@aol.com  
Message-ID: <392.94804c2.321b70cb@aol.com>  
Date: Mon, 21 Aug 2006 16:25:47 EDT  
Subject: Re: Small Connecting rod  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_392.94804c2.321b70cb\_boundary"

--part1\_392.94804c2.321b70cb\_boundary  
Content-Type: text/plain; charset="ISO-8859-1"  
Content-Transfer-Encoding: quoted-printable

In a message dated 8/21/06 1:02:49 PM, bkemp@bobkemp.com writes:

> The rod is maybe 3/16" or 1/8" in diameter.  
> On each end is a spring loaded or snap on deal that fits over a small

> - for lack of a better term - ball hitch like on a trailer hitch, but of  
> course this "ball" is maybe at most 1/4" in diameter and probabably more  
> like 3/16" or 1/8".=A0 The end pieces that go on the connecting rod are  
> usually adjustable.  
>=20

Bob,=20

Seen that kind of stuff on carburetor linkages. Speed shop maybe?

Dennis D. W7QH0  
Glendale, CA

--part1\_392.94804c2.321b70cb\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

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* * * * *
```

--part1\_392.94804c2.321b70cb\_boundary--

-----  
From: WA5CAB@cs.com  
Message-ID: <381.93b603e.321b713e@cs.com>  
Date: Mon, 21 Aug 2006 16:27:42 EDT  
Subject: Re: Small Connecting rod  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_381.93b603e.321b713e\_boundary"

--part1\_381.93b603e.321b713e\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Bob,

Try McMaster (probably the easiest to deal with), PIC or RAF.

In a message dated 8/21/2006 3:03:14 PM Central Daylight Time,



bkemp@bobkemp.com writes:

> I need to make a small connecting rod between two points.  
> I know I've seen this style of thing...just don't know where to get the  
> pieces.  
> The rod is maybe 3/16" or 1/8" in diameter.  
> On each end is a spring loaded or snap on deal that fits over a small  
> - for lack of a better term - ball hitch like on a trailer hitch, but of  
> course this "ball" is maybe at most 1/4" in diameter and proabably more  
> like 3/16" or 1/8". The end pieces that go on the connecting rod are  
> usually adjustable.

Robert Downs - Houston

<<http://www.wa5cab.com>> (Web Store)

MVPA 9480

<[wa5cab@cs.com](mailto:wa5cab@cs.com)> (Primary email)

<[wa5cab@houston.rr.com](mailto:wa5cab@houston.rr.com)> (Backup email)

--part1\_381.93b603e.321b713e\_boundary

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
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* * * * *
```

--part1\_381.93b603e.321b713e\_boundary--

-----  
Message-ID: <007401c6c56c\$20c0bd80\$640fa8c0@radioroom>

From: "Tom Rauch" <[w8ji@contesting.com](mailto:w8ji@contesting.com)>

To: Old Tube Radios <[boatanchors@theporch.com](mailto:boatanchors@theporch.com)>

Subject: Re: Small Connecting rod

Date: Mon, 21 Aug 2006 17:52:29 -0400

MIME-Version: 1.0

Content-Type: text/plain;

format=flowed;

charset="iso-8859-1";

reply-type=response

Content-Transfer-Encoding: 7bit

> - for lack of a better term - ball hitch like on a trailer  
> hitch, but of course this "ball" is maybe at most 1/4" in  
> diameter and proabably more like 3/16" or 1/8". The end

> pieces that go on the connecting rod are usually  
> adjustable.

You may have a solution from an automotive parts house but anyone who does anything mechanical or pneumatics should have a copy of McMaster Carr's catalog or bookmark their web pages.

We use everything from toothed belt and chain drive systems to raw metal or plastic stock (rods and sheets) from them in high power PA's, ATU's , and phasing units.

73 Tom

-----  
Message-Id: <6.2.1.2.2.20060821191342.023a50f8@pop-server.nc.rr.com>  
Date: Mon, 21 Aug 2006 19:14:15 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: john <johnmb@nc.rr.com>  
Subject: Re: Small Connecting rod  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed

R/C plane or gas R/C car hobby shop will have all shapes and sizes...

John K5MO

--  
No virus found in this outgoing message.  
Checked by AVG Free Edition.  
Version: 7.1.405 / Virus Database: 268.11.3/423 - Release Date: 8/18/2006

-----  
From: W4UOC@aol.com  
Message-ID: <c62.52fc76.321baf42@aol.com>  
Date: Mon, 21 Aug 2006 20:52:18 EDT  
Subject: Heathkit VHF Dual Wattmeter - Parts  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----1156207938"

-----1156207938  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I am trying to repair a Heathkit VHF Dual Wattmeter Model HM-2141 and have found that the Forward (M2) meter is open. Does anyone have a junker HM-2141 unit or know a source to find a replacement meter. It appears that the meter should read about 5 VDC full scale. The Heathkit parts number is 407749. The meter fits in a 2.25" hole and the face is about 2.5" wide by about 2.25" high.

Tom Koch - W4UOC  
8170 Habersham Waters Road  
Sandy Springs, GA 30350-4612

-----1156207938  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
* * * * *
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* * * * *
```

-----1156207938--

-----  
Mime-Version: 1.0  
Message-Id: <p05210607c10442c0a855@[192.168.1.101]>  
Date: Mon, 21 Aug 2006 22:27:54 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Richard Post <postr@ohiou.edu>  
Subject: Gonset Commander II coil dimensions?  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Fest in Huntington netted a Gonset Commander II in beautiful cosmetics. No pi network. Uses plug-in tapped or link coupled coils. This one only came with one coil, the G-40-75-80. It's 15 turns of 1.5 inch diameter and 1 and 5/8 long. (about 6 uH) on a 5 pin base. Uses fahnestock clip on the base for the link wire to a skinny coil clip.

Anyone have the dimensions on the other coil sets? 160? 20-15? 10-6? Are they tapped or link coupled? I can get calculate probable dimensions but would rather have exact info.

At 8 inches wide, 5 high and 6 deep, the Commander can fit in the typical 1950s car glovebox but is definitely more than just cute. It

sports a 6146 for RF out and a pair of push-pull 7C5 for AM modulator service (loctal version of 6V6). Rated at 30 to 50 watts input depending upon B+ and mode.

Tnx es 73,

Rich KB8TAD

<http://tinyurl.com/hexco>

-----  
From: "Ed Zeranski" <ezeran@ezeran.cnc.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: The word, Sir, is "Dempsey"  
Date: Mon, 21 Aug 2006 21:59:57 -0700  
Message-ID: <EMEPKDEJDNHEMLEAHGKHCEJNDCAA.ezeran@ezeran.cnc.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Whatever we called them it brings to memory those endearing moments in San Diego boot camp.

....Well..I guess Dempster was nulled down to "Dempsey" and that morphed into "Dipse" but after at least 50 years it is still the big box on the pier ~8^)=

EdZ

-----  
From: "Tom Smith" <tsmith@hal-pc.org>  
Subject: FS: SX-16 and stuff  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Tue, 22 Aug 2006 08:31:21 -0500  
Message-ID: <web-291614126@mail.hal-pc.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="ISO-8859-1"; format="flowed"  
Content-Transfer-Encoding: 8bit

I am selling a few items to lighten the load and make room for new hobby. I'm in the Houston, TX area and it would be great if the buyer was also in the area.

I have a very nice SX-16 Super Sky rider with the original final inspection tag dated Nov. 10, 1938. It has been recapped with orange drops and works well. I have an original manual included.

I have a Hy-Gain model TH-7DX Super Thunderbird antenna (7 element yagi) with all the insulators and trap caps newly replaced. Antenna comes with the manual.

Also have Rhon steel 48' self supporting tower (some surface rust in few places) but solid. This is a wide base tower with the Rhon rotor bearing on top.

Any interest? Please contact me at 832-204-2721 work day 713-417-5959 cell or email tsmith@hal-pc.org.

Thanks,  
Tom Smith N5AMA

-----  
Message-ID: <44EDD20A.7090409@bobkemp.com>  
Date: Thu, 24 Aug 2006 11:21:30 -0500  
From: Robert Kemp <bkemp@bobkemp.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: swan 160 f/s  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Have a nice Swan 160X for sale - rare item. \$750 includes shipping.  
Bob  
wa0vrc

-----  
Message-ID: <000501c6c7bc\$d5979ce0\$9931bb40@MEUser>  
From: "John Gillespie" <jgillespie@porchlight.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: impedance mismatch  
Date: Thu, 24 Aug 2006 16:34:05 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Help needed:

I realize this is a little off topic, but I need some help. My friend has a 1950 Ford car radio with a 12SK7 RF amp originally designed for a cowl mounted antenna (short antenna lead-in). My friend installed a rear deck antenna and added 12 feet of extension cables. The cables are bypassing almost all the signals to ground, so the radio appears useless. When operated with a standard antenna there is tons of signal, but he has mounted the rear deck antenna and drilled holes. The standard antenna has about

82mmf capacitance and the extension set has about 390mmf by comparison. The antenna trimmer can peak the short lead-in, but there is no effect on the extensions. I tried increasing the trimmer capacitance, to no effect. Is there a way to make an impedance match here? I am stumped John

-----  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: boatanchors@theporch.com  
Date: Thu, 24 Aug 2006 17:29:27 -0400  
Subject: Re: impedance mismatch  
Message-ID: <20060824.172928.3308.1.k4pf@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
From: Edward Knobloch <k4pf@juno.com>

Hi,

I would try installing a 100pF capacitor in series with the rf input of the radio (mounted right at the radio rf input).

It could be that the additional capacitance of the added lead-in is throwing off the tuned circuits at the input of the radio, causing the signal to drop-off.

100pF in series with the 390pF would be close to the original 82pF.

73,  
Ed Knobloch

On Thu, 24 Aug 2006 "John Gillespie" <jgillespie@porchlight.ca> writes:  
> My friend  
> has a 1950 Ford car radio with a 12SK7 RF amp originally designed  
> for a cowl  
> mounted antenna (short antenna lead-in). My friend installed a rear  
> deck  
> antenna and added 12 feet of extension cables. The cables are  
> bypassing  
> almost all the signals to ground, so the radio appears useless.  
> When  
> operated with a standard antenna there is tons of signal, but he has  
> mounted  
> the rear deck antenna and drilled holes. The standard antenna has  
> about  
> 82mmf capacitance and the extension set has about 390mmf by  
> comparison. <snip>

-----

Message-ID: <001001c6c7cf\$85b7a2c0\$2e30bb40@MEUser>  
From: "John Gillespie" <jgillespie@porchlight.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "old tube radios" <boatanchors@theporch.com>  
Subject: Re: impedance mismatch  
Date: Thu, 24 Aug 2006 18:49:10 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks for the feedback, Rodger. Yes it is the special automotive extension cable. In fact I had to go out and purchase the exact cables to duplicate the problem on the bench, to try and find a solution.  
John

----- Original Message -----

Subject: impedance mismatch

Hi John,  
Is the added extension cable the special low capacity cable used for auto antennas? Basically, regular cable with the short antenna is effectively going to bypass your signal to ground. If it isn't the special low capacity cable you can probably find it at Radio Shack or an auto parts store.

Rodger WQ9E

-----  
Message-ID: <000e01c6c7e2\$71526780\$5c31bb40@MEUser>  
From: "John Gillespie" <jgillespie@porchlight.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "old tube radios" <boatanchors@theporch.com>  
Subject: Re: impedance mismatch  
Date: Thu, 24 Aug 2006 21:04:00 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks Ed:

You've saved the day. I really appreciate it. It has totally worked like a dream. Radio plays great now on the extension cable 12' long.

I had read that solution in a book earlier, but just couldn't get my head around how it could work. The signal was bypassed to ground how could I possibly retrieve it. Once you stated the two capacitances are in series. The lightbulbs started to go back on. Many thanks John

----- Original Message -----

From: "Edward Knobloch" <k4pf@juno.com>

Subject: Re: impedance mismatch

> Hi,

> I would try installing a 100pF capacitor in series with the rf input  
> of the radio (mounted right at the radio rf input).

> 100pF in series with the 390pF would be close to the original 82pF.

-----  
Message-ID: <BAYC1-PASMT10916A2B894017573AEFB7C9450@CEZ.ICE>

From: "Ed Sieb" <esieb@sympatico.ca>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: impedance mismatch

Date: Thu, 24 Aug 2006 21:15:49 -0400

Message-ID: <NIBBKNOPFNLAGHLELMPLKEDIKIAA.esieb@sympatico.ca>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

A 100pf variable might be better, to allow antenna trimming.

Ed. VA3ES

=====

-----Original Message-----

Thanks Ed:

You've saved the day. I really appreciate it. It has totally worked like a dream. Radio plays great now on the extension cable 12' long. I had read that solution in a book earlier, but just couldn't get my head around how it could work. The signal was bypassed to ground how could I possibly retrieve it. Once you stated the two capacitances are in series. The lightbulbs started to go back on. Many thanks John

-----  
Mime-Version: 1.0

Message-Id: <p05210601c1140e735648@[192.168.1.101]>

Date: Thu, 24 Aug 2006 22:22:06 -0400

To: Old Tube Radios <boatanchors@theporch.com>



From: Richard Post <postr@ohiou.edu>  
Subject: Re: impedance mismatch  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

John,

You might need to bridge that added cap with a high value resistor in parallel to bleed off static discharge especially when the car is moving.

At 9:04 PM -0400 8/24/06, John Gillespie wrote:

>Thanks Ed:

> You've saved the day. I really appreciate it. It has totally worked  
>like a dream.

-----  
Message-ID: <001501c6c807\$193e7e10\$85e47443@KB6NAX>

From: "Arden Allen" <gumbear@pacbell.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: impedance mismatch

Date: Thu, 24 Aug 2006 22:26:54 -0700

MIME-Version: 1.0

Content-Type: text/plain;  
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Hi John,

> .....My friend installed a rear deck  
> antenna and added 12 feet of extension cables. The cables are bypassing  
> almost all the signals to ground, so the radio appears useless. ....

More to the point, a short antenna (a small fraction of 1/2 wavelength) appears as a capacitor. The capacitance is between the antenna and the car body. The cable capacitance is minimized to allow as much of the signal as possible to be coming from the exterior of the car. The RF, or loading coil, if you prefer, in the radio is resonated with the car body capacitance. The additional cable capacitance detuned the antenna circuit, obviously. The series 100pF capacitor allows the coil to again resonate in the broadcast band. It's a little hard to wrap one's mind around when basic antenna theory deals only with resonant wires. My first car radio repair job was a head scratcher until I laid the antenna flat on the ground. Sensitivity improved dramatically. I ended up mounting the antenna on a metal cabinet for better reception. Kind of hard to simulate a car body on the work bench. Better not to step on you test antenna also ;-)

Arden Allen

KB6NAX

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End of BOATANCHORS Digest 3949

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